

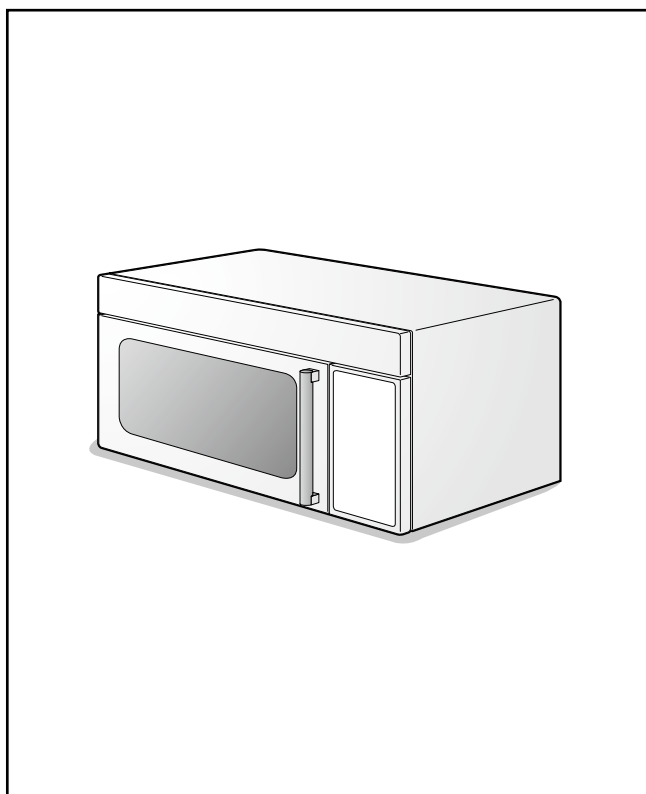


MICROWAVE OVEN

BASIC: SMH7185STG
MODEL: SMH7187STG
MODEL CODE: SMH7187STG/XAA

SERVICE *Manual*

MICROWAVE OVEN



CONTENTS

1. Precaution
2. Product Specification
3. Disassembly and Reassembly
4. Troubleshooting
5. Exploded Views and Part List
6. PCB Diagrams
7. Wiring Diagrams
8. Schematic Diagrams

Refer to the service manual in the GSPN(see rear cover) for the more information.

• Contents

1. Precaution	3
1-1 Safety precautions	4
1-2 Special High Voltage Precautions	5
2. Specifications	6
2-1 Features	6
2-2 Accessory	7
2-3 Table of Specifications	8
3. Disassembly and Reassembly	10
3-1 Disassembly of Assembly Grille and Panel Outer	10
3-2 Replacement of High Voltage Transformer and HVC and Base bottom	12
3-3 Replacement of Magnetron	14
3-4 Replacement of Door Assembly	15
3-5 Replacement of Fuse	17
3-6 Replacement of Drive Motor	17
3-7 Replacement of stirrer motor	18
3-8 Removal of stirrer	19
3-9 Replacement of Control Circuit Board	20
3-10 Replacement of Cooktop lamp	21
3-11 Replacement of Oven Light	22
4. Troubleshooting	23
4-1 Error Code Numbering Rule	23
4-2 Error Code List	23
4-3 Electrical Malfunction	25
5. Exploded Views and Parts List	28
5-1 Exploded Views	28
5-2 Main Parts List	29
5-3 Door Parts List	31
5-4 Control Parts List	32
5-5 Standard Parts List	33
6. PCB Diagrams	34
6-1 PCB Diagrams	34
7. Wiring Diagrams	35
7-1 Wiring Diagrams	35
8. Schematic Diagrams	37
8-1 Schematic Diagrams	37

1. Precaution

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not operate or allow the oven to be operated with the door open.
- (b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary:
 - (1) Interlock operation,
 - (2) proper door closing,
 - (3) seal and sealing surfaces (arcing, wear, and other damage),
 - (4) damage to or loosening of hinges and latches,
 - (5) evidence of dropping or abuse.
- (c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
- (d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- (e) A Microwave leakage check to verify compliance with the Federal performance standard should be performed on each oven prior to release to the owner.

1. Precaution

Follow these special safety precautions. Although the microwave oven is completely safe during ordinary use, repair work can be extremely hazardous due to possible exposure to microwave radiation, as well as potentially lethal high voltages and currents.

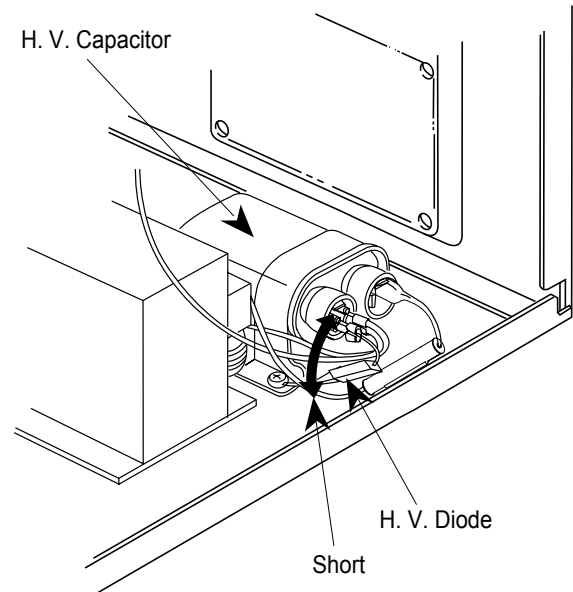
1-1 Safety precautions ()

1. All repairs should be done in accordance with the procedures described in this manual. This product complies with Federal Performance Standard 21 CFR
 2. Microwave emission check should be performed to prior to servicing if the oven is operative.
 3. If the oven operates with the door open :Instruct the user not to operate the oven and contact the manufacturer and the center for devices and radiological health immediately.
 4. Notify the Central Service Center if the microwave leakage exceeds 5 mW/cm².
 5. Check all grounds.
 6. Do not power the MWO from a "2-prong" AC cord. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
 7. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
 8. Make sure that there are no cabinet openings through which people --particularly children--might insert objects and contact dangerous voltages. Examples: Lamp hole, ventilation slots.
 9. Inform the manufacturer of any oven found to have emission in excess of 5 mW/cm² ,Make repairs to bring the unit into compliance at no cost to owner and try to determine cause. Instruct owner not to use oven until it has been brought into compliance.
- CENTRAL SERVICE CENTER**
10. Service technicians should remove their watches while repairing an MWO.
 11. To avoid any possible radiation hazard,replace parts in accordance with the wiring diagram. Also, use only the exact replacements for the following parts: Primary and secondary interlock switches, interlock monitor switch.
 12. If the fuse is blown by the Interlock Monitor Switch: Replace all of the following at the same time: Primary, door sensing switch and power relay, as well as the Interlock Monitor Switch. The correct adjustment of these switches is described elsewhere in this manual. Make sure that the fuse has the correct rating for the particular model being repaired.
 13. Design Alteration Warning: Use exact replacement parts only, i.e.,only those that are specified in the drawings and parts lists of this manual. This is especially important for the Interlock switches, described above. Never alter or add to the mechanical or electrical design of the MWO. Any design changes or additions will void the manufacturer's warranty. Always unplug the unit's AC power cord from the AC power source before attempting to remove or reinstall any component or assembly.
 14. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
 15. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and field-effect transistors. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground.
 16. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.
 17. When checking the continuity of the witches or transformer, always make sure that the power is OFF, and one of the lead wires is disconnected.
 18. Components that are critical for safety are indicated in the circuit diagram by shading,  or .
 19. Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.
- NOTE :** Connect the oven to a 20A. When connecting the oven to a 15A,make sure that circuit breaker can operate.

1. Precaution

1-2 Special High Voltage Precautions

1. High Voltage Warning Do not attempt to measure any of the high voltages --this includes the filament voltage of the magnetron. High voltage is present during any cook cycle. Before touching any components or wiring, always unplug the oven and discharge the high voltage capacitor (See Figure 1-1)
2. The high-voltage capacitor remains charged about 30 seconds after disconnection. Short the negative terminal of the high-voltage capacitor to the oven chassis. (Use a screwdriver.)
3. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.



PRECAUTION

There exists HIGH VOLTAGE ELECTRICITY with high current capabilities in the circuits of the HIGH VOLTAGE TRANSFORMER secondary and filament terminals. It is extremely dangerous to work on or near these circuits with the oven energized.

DO NOT measure the voltage in the high voltage circuit including filament voltage of magnetron.



PRECAUTION

Servicemen should remove their watches whenever working close to or replacing the magnetron.



PRECAUTION

Never touch any circuit wiring with your hand nor with uninsulated tool during operation.

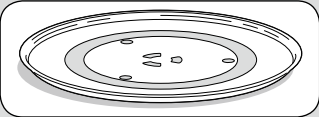
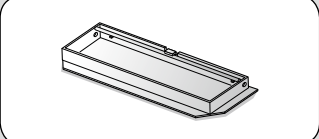
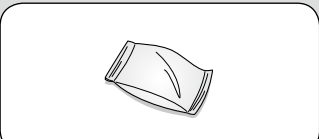
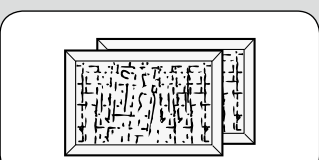
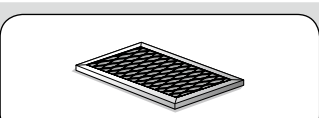
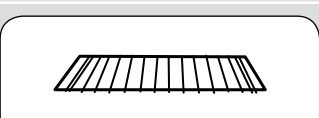
2. Specifications

2-1 Features

Product Features	
• Professional Design	Samsung New OTR with Stainless Steel, it has professional look and the design matches great with other kitchen appliances, so that it provides harmonious kitchen interior and finally completes total kitchen solution.
• Turbo vent	With 400CFM ventilation power, New OTR can keep the comfortable cooking condition by absorbing smoke and odor from cook-top. Moreover, it provides the silent condition that is equivalent noise level to other OTR with lower ventilation power. The Strongest power without additional noise! That's the benefit you can feel from New OTR!
• Big Interior capacity for convenience	With the 1.8 cu.ft capacity, it offers enough space to cook. The big capacity combined with 1,100 watts of output achieves superior cooking results.
• Auto Louver (SMH7187STG Only)	Motorized Louver is opened automatically only when OTR is working. Therefore, you can prevent the contamination and also clean the OTR easily. You don't need to spend much time to clean the dirt in each grille. With the convenience, it also provides neat appearance.
• Sensor cook	Don't worry about failure of your cooking! New OTR's sensor technology offers the best dish. Only thing you need to do is just select the cooking menu, and then you will be satisfied with the cooking results by sensor cook.
• VFD display	With more informative VFD display, the OTR helps you use all the function it has with ease.

2. Specifications

2-2 Accessory

Item	Description	Code No.	Q'ty
	TRAY COOKING	DE74-20002C	1
	ASSY-GUIDE ROLLER	DE97-00368A	1
	ASSY-HOOD DAMPER	DE92-90242D	1
	ASSY-HARD WARE	DE92-90505E	1
	FILTER AIR	DE63-00196A	2
	FILTER CHARCOAL	DE63-00367D	1
	RACK-WIRE	DE75-00036A	1

2. Specifications

2-3 Table of Specifications

Items	Basic Model	New Model
	SMH7185STG	SMH7187STG
Cavity Size (cu.ft.)	1.8	1.8
Power		
120V / 60Hz Power Source	-	-
Output Power (Watts)	1100	1100
Power Consumption (Watts/Amp)	1650	1650
Characteristics		
Control Method	Touch	Touch
Display	1 Line VFD	1 Line VFD
Cooking Timer	99 min. 99 sec.	99 min. 99 sec.
Power Level	10	10
Auto Defrost	Power	Power
Auto Reheat	Sensor	Sensor
Sensor Cook	Yes	Yes
One Touch Instant Cook Pads	Sensor (9)	Sensor (9)
Handy Helper	Yes	Yes
Kids' Meals	Yes	Yes
Snack bar	Yes	Yes
Custom Cook	Yes	Yes
Brown	-	-
Combi	-	-
Convection	-	-
Speed cook	-	-
More/Less	Yes	Yes
Various Cooking Modes	-	-
Convection Temperature	-	-
Cooking Stages	3	3
One Minute Plus	Yes	Yes
Time Plus	-	-
Clock	Yes	Yes
Kitchen Timer	Yes	Yes
Help Screen	Yes	Yes
Language Option	En / Fr / Sp	En / Fr / Sp
Weight Option	Kg / Lb	Kg / Lb
Word Prompting Speed Controls	-	-
Sound Changes	-	-
Reminder End Signal On/Off	Yes	Yes
Child Safety Lock	Yes	Yes
Clock System Option (12 hrs / 24 hrs)	12 hrs	12 hrs
Daylight Savings Time Adjustment	Yes	Yes
Demonstration Mode	-	-
Numeric Pads	0-9	0-9

2. Specifications

Items	Basic Model	New Model
	SMH7185STG	SMH7187STG
Turntable Distribution	Stirrer + Turntable	Stirrer + Turntable
Turntable On/Off	Yes	Yes
End Signal Sound	Yes	Yes
Special Function	-	-
Hood Ventilation		
Vent Fan CFM	400	400
Vent Orientation	Vertical	Vertical
Vent Fan Control	Turbo / Hi / Low / Off	Turbo / Hi / Low / Off
Cooktop Lighting	Light (On / Night / Off)	Light (On / Night / Off)
Auto Night Light	No	No
Motor Vent	Non Motorized Vent	Motorized Vent
Accessories		
Rack	1 Position 1 Rack	1 Position 1 Rack
Cook Book	-	-
Properties		
Cabinet Colour	Black/White	Black/White
Cavity Interior	Epoxy	Epoxy
Cabinet Dimensions (W x H x D inches)	29 ^{7/8} x 16 ^{1/2} x 15 ^{15/32}	29 ^{7/8} x 16 ^{1/2} x 15 ^{15/32}
Net Weight (lb)	24.2Kg / 53.35lbs	24.2Kg / 53.35lbs
	24.6kg/54.23lbs(STG)	24.6kg/54.23lbs(STG)
Shipping Properties		
Shipping Dimensions (W x H x D inches)	33 ^{3/8} x 19 ^{15/16} x 19 ^{13/32}	33 ^{3/8} x 19 ^{15/16} x 19 ^{13/32}
Loading Q'ty (sets / 40ft)	330 (Jumbo)	330 (Jumbo)
Shipping Weight (lb)	26.7kg/58.86lbs	26.7kg/58.86lbs
	27.1kg/59.75lbs(STG)	27.1kg/59.75lbs(STG)

3. Disassembly and Reassembly

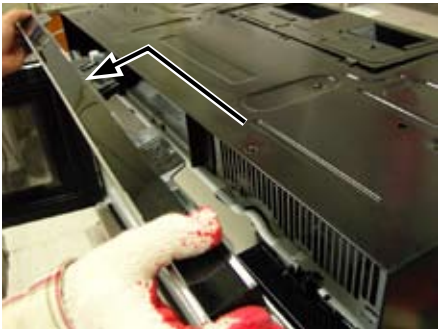
MAGNETRON, MOTOR ASSEMBLY, VENT BLOWER AND HIGH VOLTAGE TRANSFORMER

Oven must be removed from wall.

REMOVING OVEN FROM WALL (2 PEOPLE REQUIRED)

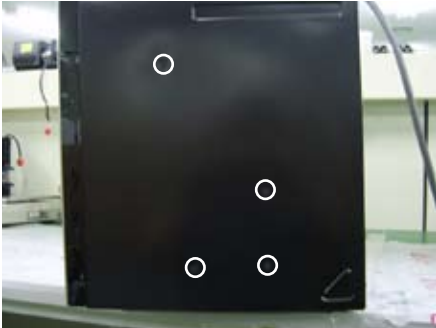
Oven is hooked on metal tabs at bottom of wall mounting plate and to cabinet by (3) top cabinet bolts.

3-1 Disassembly of Assembly Grille and Panel Outer

Parts	Explanation Photo	Explanation
Grille		1. Disconnect oven power. 2. Remove Grille. 1) Remove 2 screws 2) Slide the Grille to the left, then pull it straight out.
		
Panel Outer		1. Disconnect oven power. 2. Remove Grille. 3. Remove Screw.(7)
		4. Remove Screw.(4)

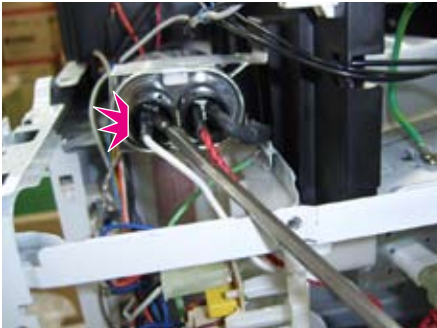
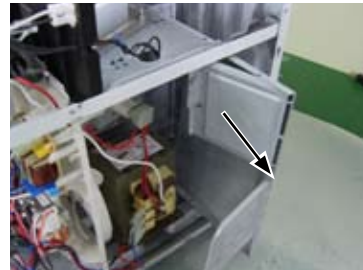
3. Disassembly and Reassembly

3-1 Disassembly of Assembly Grille and Panel Outer

Parts	Explanation Photo	Explanation
Panel Outer		5. Remove Screw.(4)
		6. Remove Screw.(2)
		7. Remove Screw.(2)
	Explanation Photo	
		
	Explanation	
	8. Remove Panel Outer.	

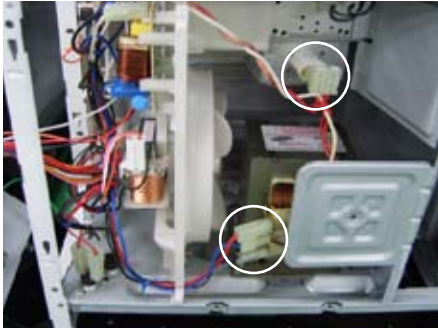
3. Disassembly and Reassembly

3-2 Replacement of High Voltage Transformer and HVC and Base bottom

Parts	Explanation Photo	Explanation
High voltage capacitor		1. Disconnect Oven Power. 2. Remove Panel Outer. 3. Discharge The High Voltage Capacitor. ⚠ ATTENTION : When discharge must become ground terminal of HVC and metal of around.
		4. Remove screw.(1) 5. Disconnect the Lead Wire.
Base Bottom	 	1. Remove Screw.(5) 2. Disconnect Lamp Housing. 3. Remove Base bottom.
HV Trans	   	1. Disconnect Oven Power. 2. Remove the Base bottom and Panel Outer. 3. Disassembly the Bracket Duct upper after remove screw.

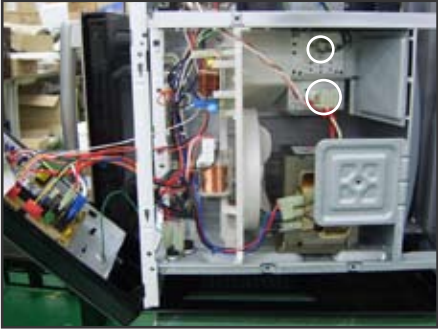
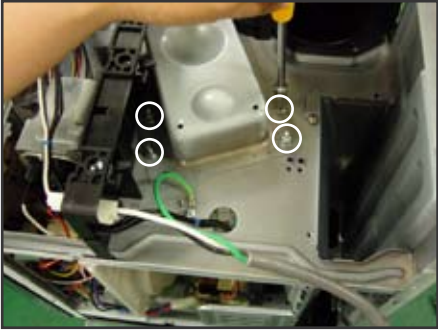
3. Disassembly and Reassembly

3-2 Replacement of High Voltage Transformer and HVC and Base bottom

Parts	Explanation Photo	Explanation
HV Trans		4. Disconnect the Lead Wire.
		5. Remove screw.(3) 6. Take out the HV Trans.

3. Disassembly and Reassembly

3-3 Replacement of Magnetron

Parts	Explanation Photo	Explanation
Magnetron		Remove the magnetron including the shield case, permanent magnet, choke coils and capacitors (all of which are contained in one assembly). 1. Disconnect all lead wires from the magnetron.
		2. Remove nuts (4) securing the magnetron to the wave guide. 3. Take out the magnetron very carefully.
NOTE1: When removing the magnetron, make sure that its antenna does not hit any adjacent parts, or it may be damaged. NOTE2: When replacing the magnetron, be sure to remount the magnetron gasket in the correct position and make sure the gasket is in good condition.		



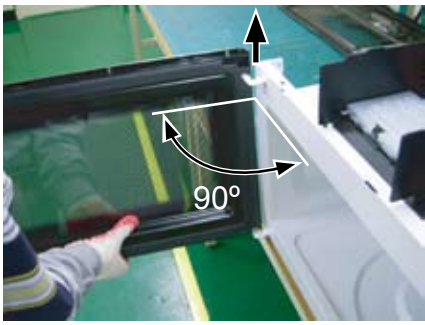
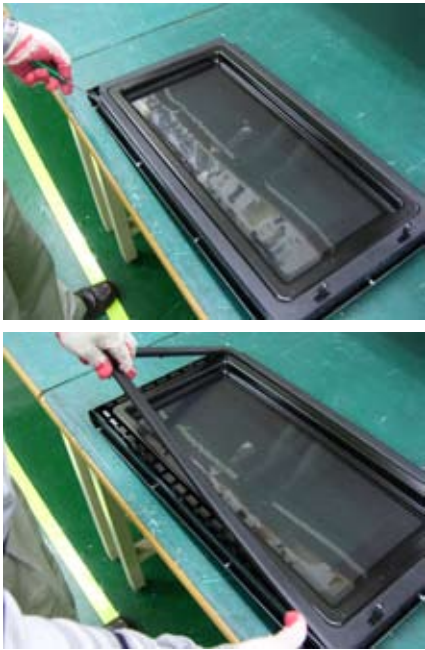
PRECAUTION

During replacement, be certain R.F. anode gasket is in place around anode stub.

PERFORM MICROWAVE LEAKAGE TEST

3. Disassembly and Reassembly

3-4 Replacement of Door Assembly

Parts	Disassembly Photo	Explanation
Removal of Door Assembly		1. Open the Assembly Door by degree 90° 2. Seperate lifting Assembly Door from Set.
Removal of Door C		2. Insert flat screwdriver into the gap between Door "A" and Door "C" to remove Door "C". • Becareful when handling Door "C" because it is fragile.
Removal of Key Door & Spring		3. Detach the spring and key door from Door.

3. Disassembly and Reassembly

3-4 Replacement of Door Assembly

Removal of Handle		4. Remove 2 screws, then handle is detached from Door "A".
Removal of Door "E"		5. Following the procedure as shown in the figure, insert and bend a thin metal plate between Door "E" and Door "A" until you hear the 'tick' sound. • Insertion depth of the thin metal plate should be 0.5mm or less.

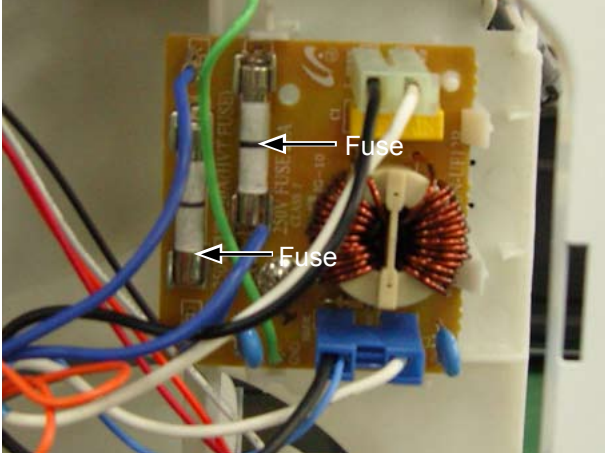


PRECAUTION

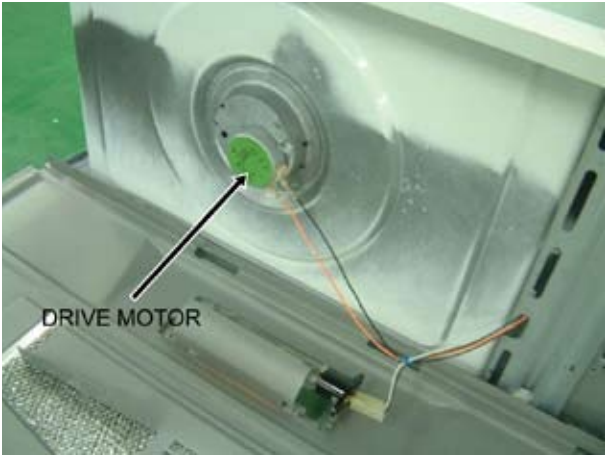
PERFORM MICROWAVE LEAKAGE TEST

3. Disassembly and Reassembly

3-5 Replacement of Fuse

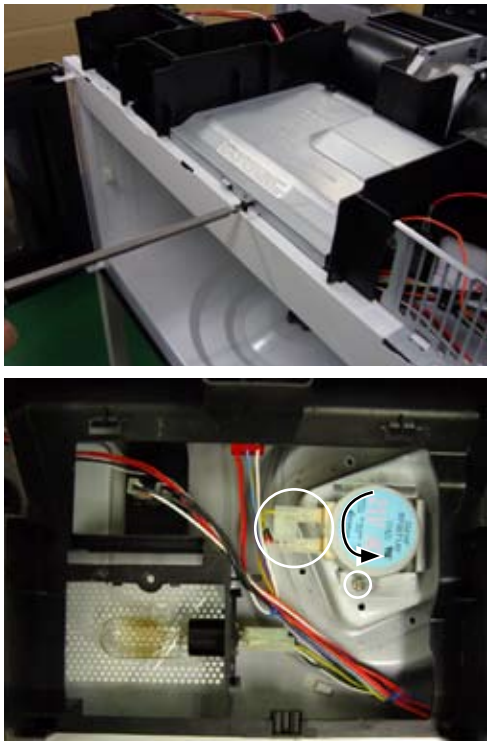
Parts	Explanation Photo	Explanation
Fuse		The fuse is located on the noise filter. 1. Disconnect power and remove grille and Assembly Control Box. 2. Replace the fuse. 3. When 20A fuse blows out by the operation of interlock monitor switch failure, replace the primary interlock switch, secondary interlock switch, door sensing switch, interlock monitor switch and power relay. 4. When the above four switches operate properly, check if any other part such as the control circuit board, blower motor or high voltage transformer is defective.

3-6 Replacement of Drive Motor

Parts	Explanation Photo	Explanation
Drive Motor		1. Disconnect power and remove Base bottom screws(5). 2. Remove Base bottom and disconnect the turntable motor drive. 3. Remove turntable motor screws(1) and pull the turntable motor out. 4. When replacing the drive motor, be sure to remount it in the correct position with the coupler. 5. Connect all the leads to the drive motor.

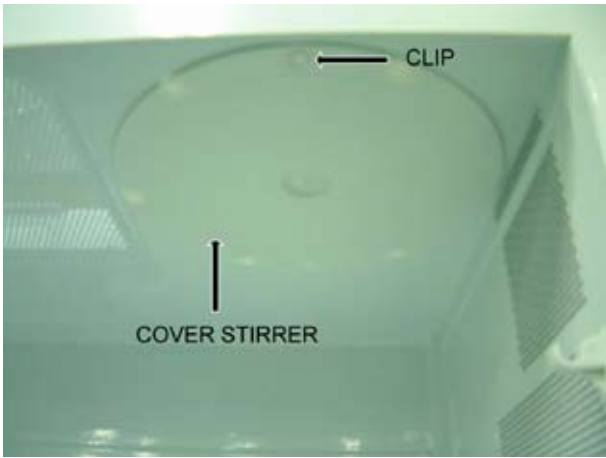
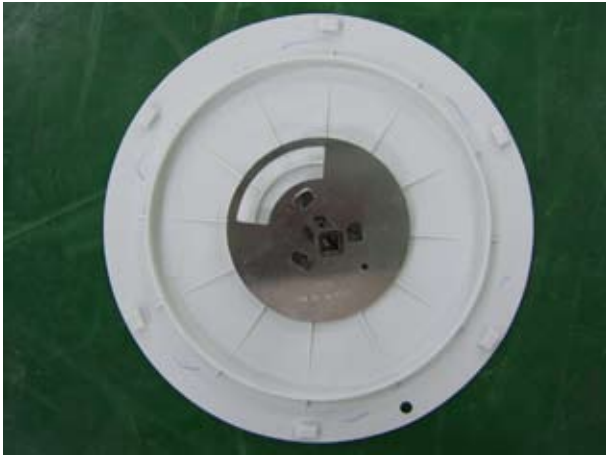
3. Disassembly and Reassembly

3-7 Replacement of stirrer motor

Parts	Explanation Photo	Explanation
Stirrer Motor		1. Disconnect power and remove Grille screws(3). 2. Remove the bracket duct upper. 3. Disconnect the stirrer motor wire. 4. Remove stirrer motor screws(1) and after turn to arrow direction pull the stirrer motor.

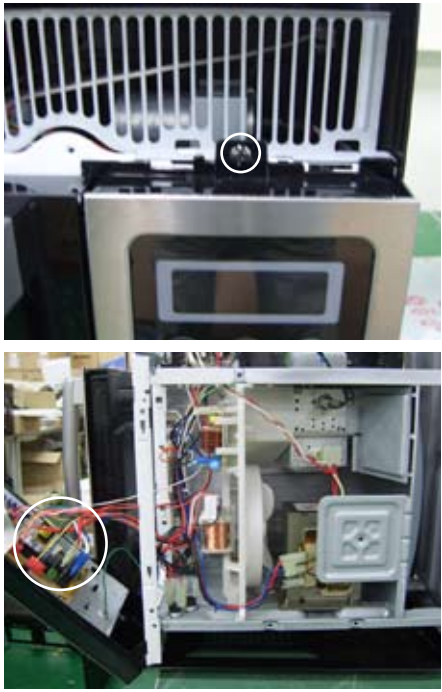
3. Disassembly and Reassembly

3-8 Removal of stirrer

Parts	Explanation Photo	Explanation
Stirrer	 The photo shows the interior of a microwave oven. A white circular cover is visible in the center. A black line points to a small clip on the cover, labeled 'CLIP'. Another black line points to the cover itself, labeled 'COVER STIRRER'.	The stirrer is motor driver and located on the upper side of the cavity. The oven uses a top feed wave guide. The stirrer is located in the wave guide and the motor is located on the wave guide.
	 The photo shows a close-up of the white circular stirrer cover. It has a central circular opening and several small tabs around the perimeter.	1. Disconnect power and open the door. 2. Remove the clip and turn the stirrer cover left. 3. Remove stirrer cover and the stirrer will come with it.

3. Disassembly and Reassembly

3-9 Replacement of Control Circuit Board

Parts	Explanation Photo	Explanation
Removal of Control Box Assembly		1. Disconnect power and remove Grille. 2. Be sure to ground any static electric charge in your body and never touch the control circuit. 3. Remove a screw securing the control box assembly. 4. Disconnect the connectors from the control circuit board.
Removal of P.C.B Assembly		1. Pull the lever end of the plastic fastener and remove the Flexible Printed Circuit(FPC) of membrane panel. 2. Remove screws (3) securing the control circuit board. 3. Lift up the control circuit board from the Ass'y control box. 4. When reconnecting the FPC connector, make sure that the holes on the connector are properly engaged with the hooks on the Plastic Fastener.

3. Disassembly and Reassembly

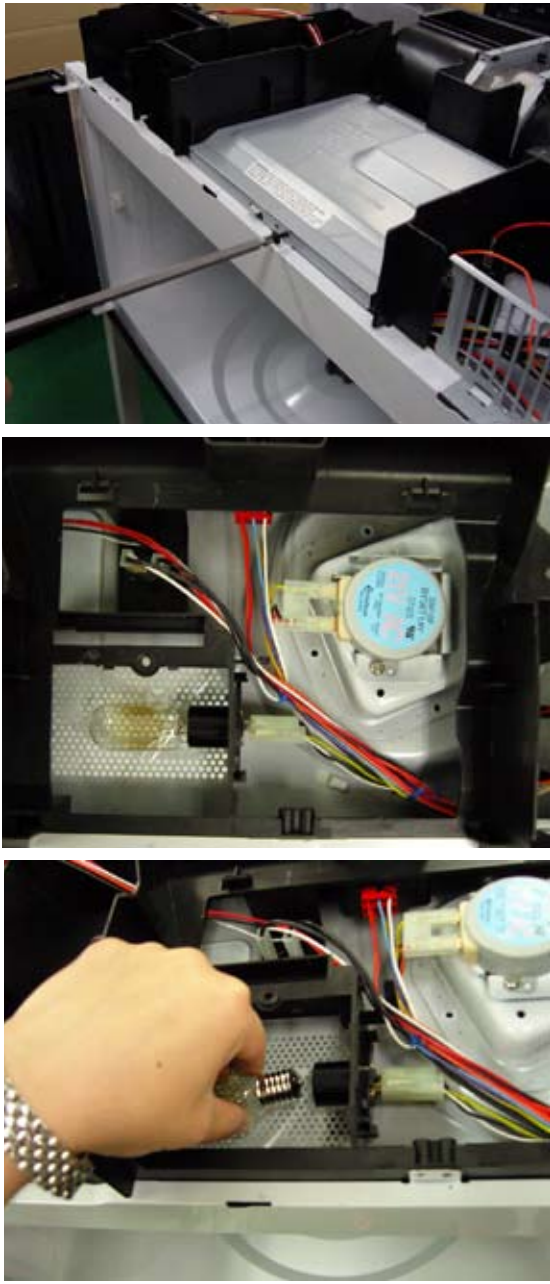
3-10 Replacement of Cooktop lamp

When replacing the night light, make sure that you are wearing gloves to avoid injury from the heat of the bulb.

Parts	Explanation Photo	Explanation
Cooktop Lamp		1. Unplug the oven or turn off the power at the main power. 2. Remove the bulb cover, and mounting screws. 3. Replace the bulb with a 40 watt appliance bulb. 4. Replace the bulb cover and mounting screws. 5. Turn the power back on at the main power supply.
		
		

3. Disassembly and Reassembly

3-11 Replacement of Oven Light

Parts	Explanation Photo	Explanation
Oven Light		1. Disconnect Oven power. 2. Remove the Grille 3. Remove the bracket Duct upper by remove 1 screw. 4. Replace the bulb with a 40 watt appliance bulb.

4. Troubleshooting

4-1 Error Code Numbering Rule

1. ERROR CODE NUMBERING RULE is applied to a microwave oven and an oven.(CMO, OTR, Grill, Convection, Commercial etc.)
2. All sensors and devices have their own number. ex) Gas Sensor = 1, Temp. Sensor = 2, ...
3. Of each device, No.1 and No.2 refer to "Open Error" (not sensed) and "Short Error", respectively.
4. This numbering rule has been applied to models to have been developed since January, 1, 2005. (But, GE or Customize model are excluded.)

E	-	1	1
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DEVICE	ERROR CASE
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0- Others	1- Open
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1- Gas Sensor	2- Short
---------------	----------

2- Temp. Sensor	•
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3- Weight Sensor	•
------------------	---

4- Easy/PH Sensor	•
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5- EEPROM	
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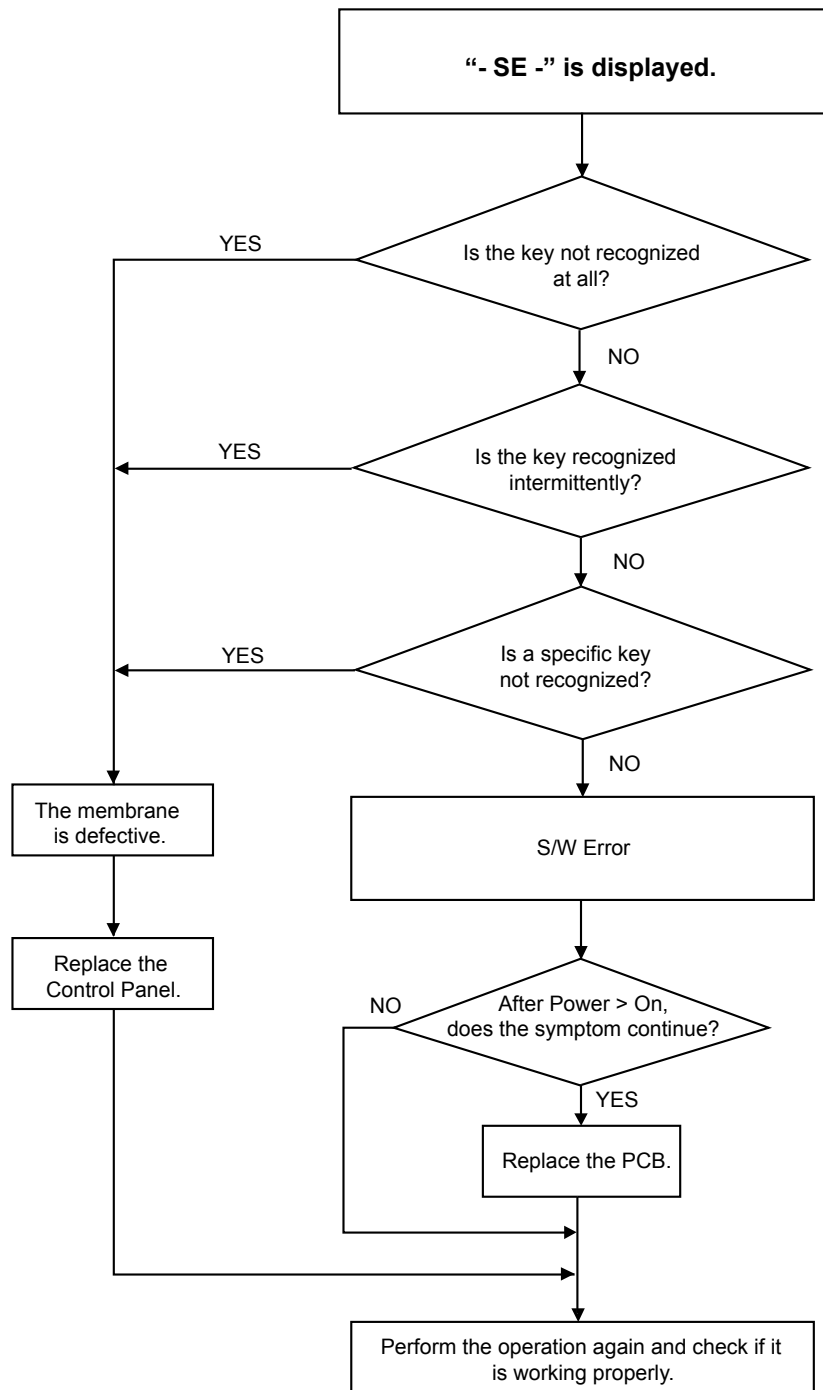
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4-2 Error Code List

Error Code	Others (E-0X, Letter)	Solution	Page
-SE-	Key Short Error (10 seconds)	Turn off set and restart.	21 Page

4. Troubleshooting

4-2-1 Key Short Error



4. Troubleshooting

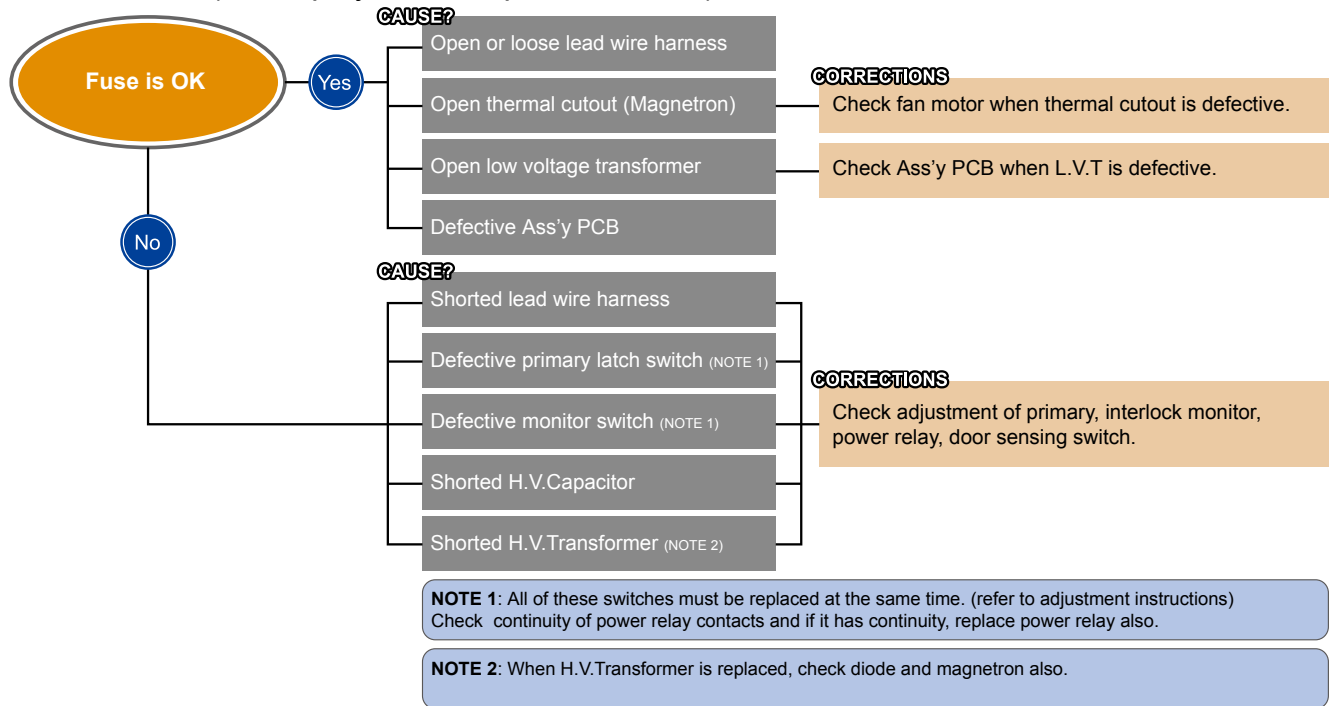


PRECAUTION

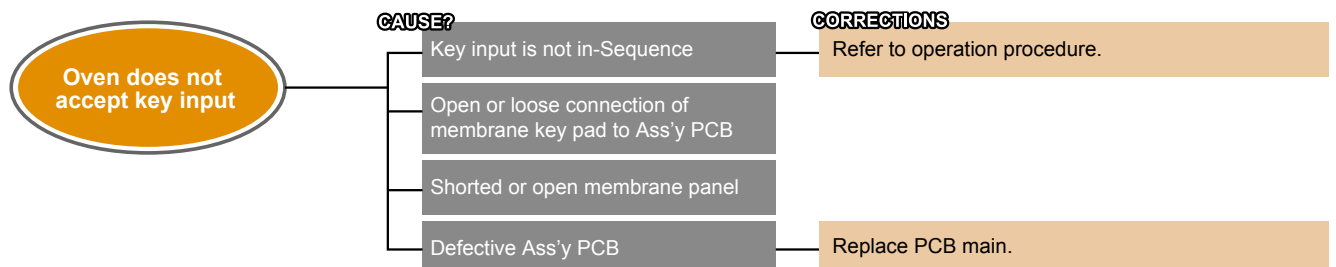
1. CHECK GROUNDING BEFORE CHECKING FOR TROUBLE.
2. BE CAREFUL OF THE HIGH VOLTAGE CIRCUIT.
3. DISCHARGE THE HIGH VOLTAGE CAPACITOR.
4. WHEN CHECKING THE CONTINUITY OF THE SWITCHES OR TRANSFORMER, DISCONNECT ONE LEAD WIRE FROM THESE PARTS AND THEN CHECK CONTINUITY WITHOUT THE POWER SOURCE ON. TO DO OTHERWISE MAY RESULT IN A FALSE READING OR DAMAGE TO YOUR METER.
5. DO NOT TOUCH ANY PART OF THE CIRCUIT OR THE CONTROL CIRCUIT BOARD, SINCE STATIC DISCHARGE MAY DAMAGE IT. ALWAYS TOUCH GROUND WHILE WORKING ON IT TO DISCHARGE ANY STATIC CHARGE BUILT UP.

4-3 Electrical Malfunction

Oven is dead. (No display and no operation at all.)

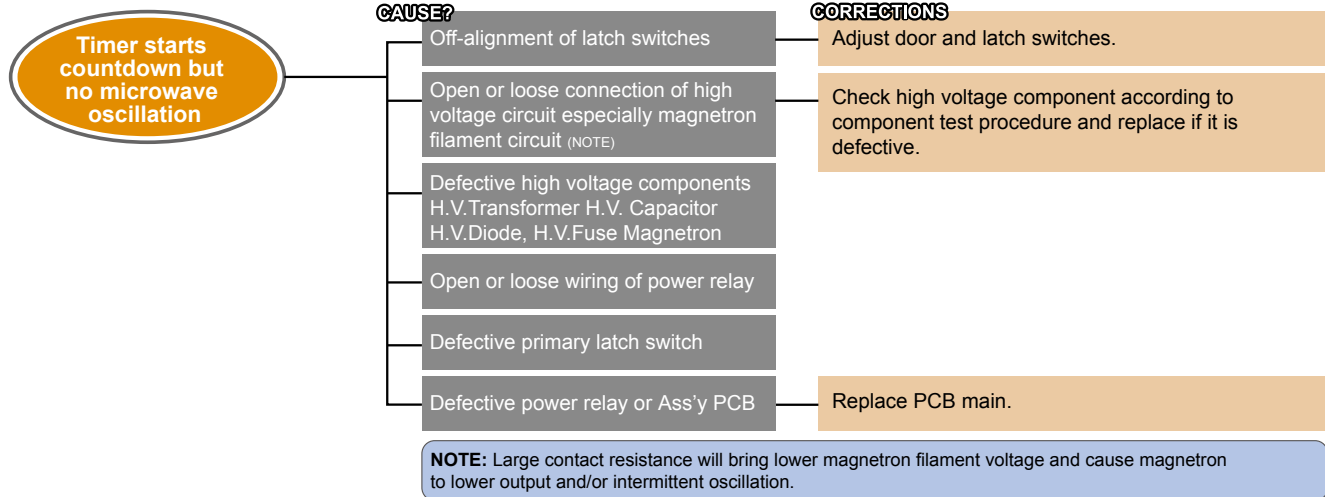


Oven does not accept key input (Program)

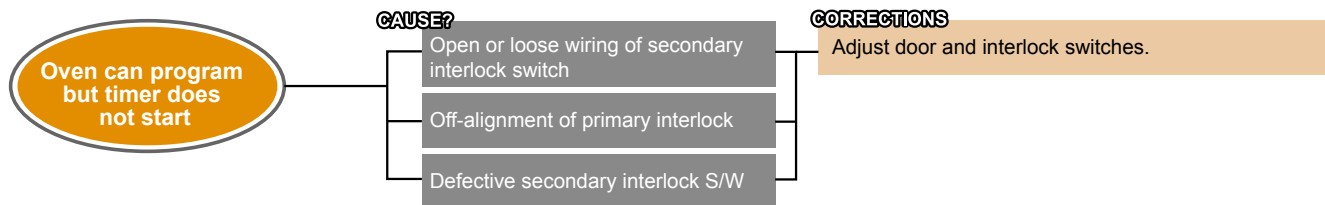


4. Troubleshooting

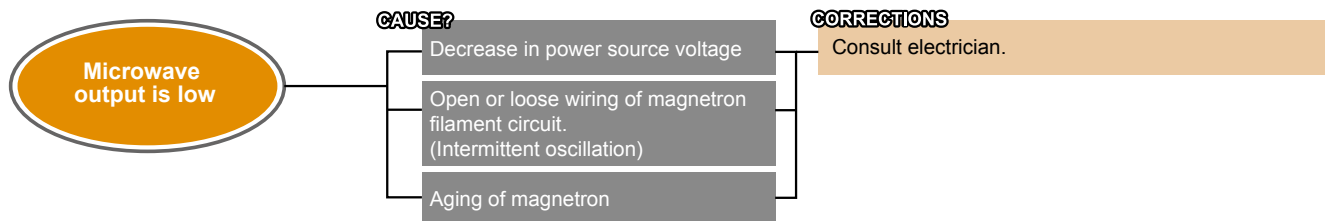
Timer starts countdown but no microwave oscillation.
(No heat while oven lamp and fan motor turn on.)



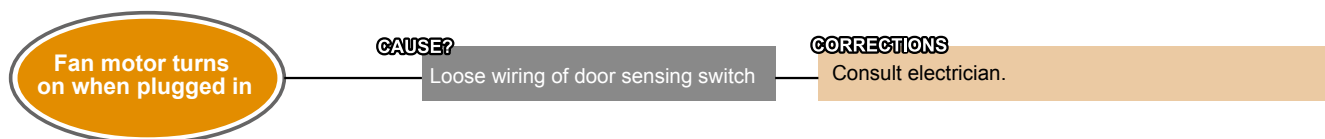
Oven can program but timer does not start.



Microwave output is low. (Oven takes longer time to cook food.)



Fan motor turns on when plugged in.

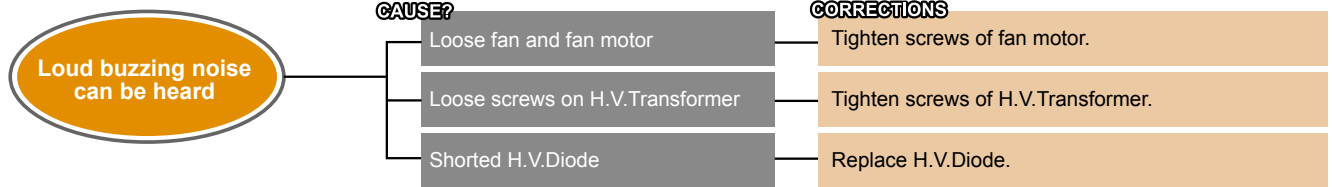


Oven does not operate and return to the plugged in mode.

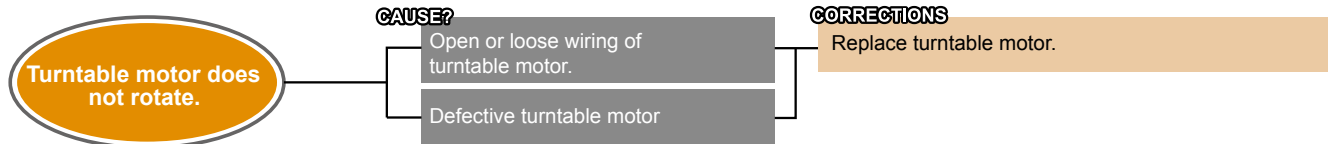


4. Troubleshooting

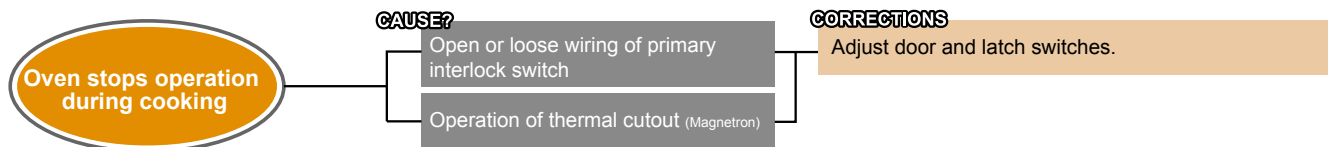
Loud buzzing noise can be heard.



Turntable motor does not rotate.



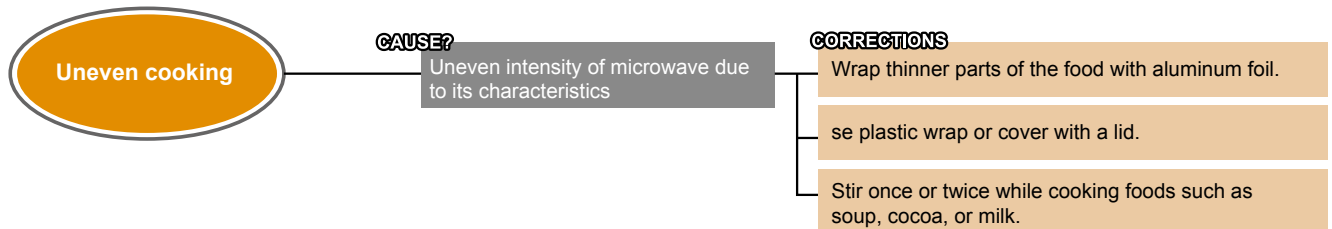
Oven stops operation during cooking.



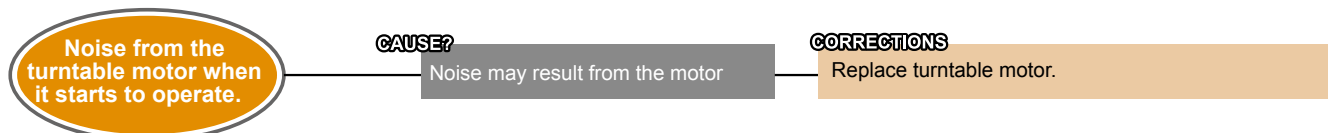
Sparks.



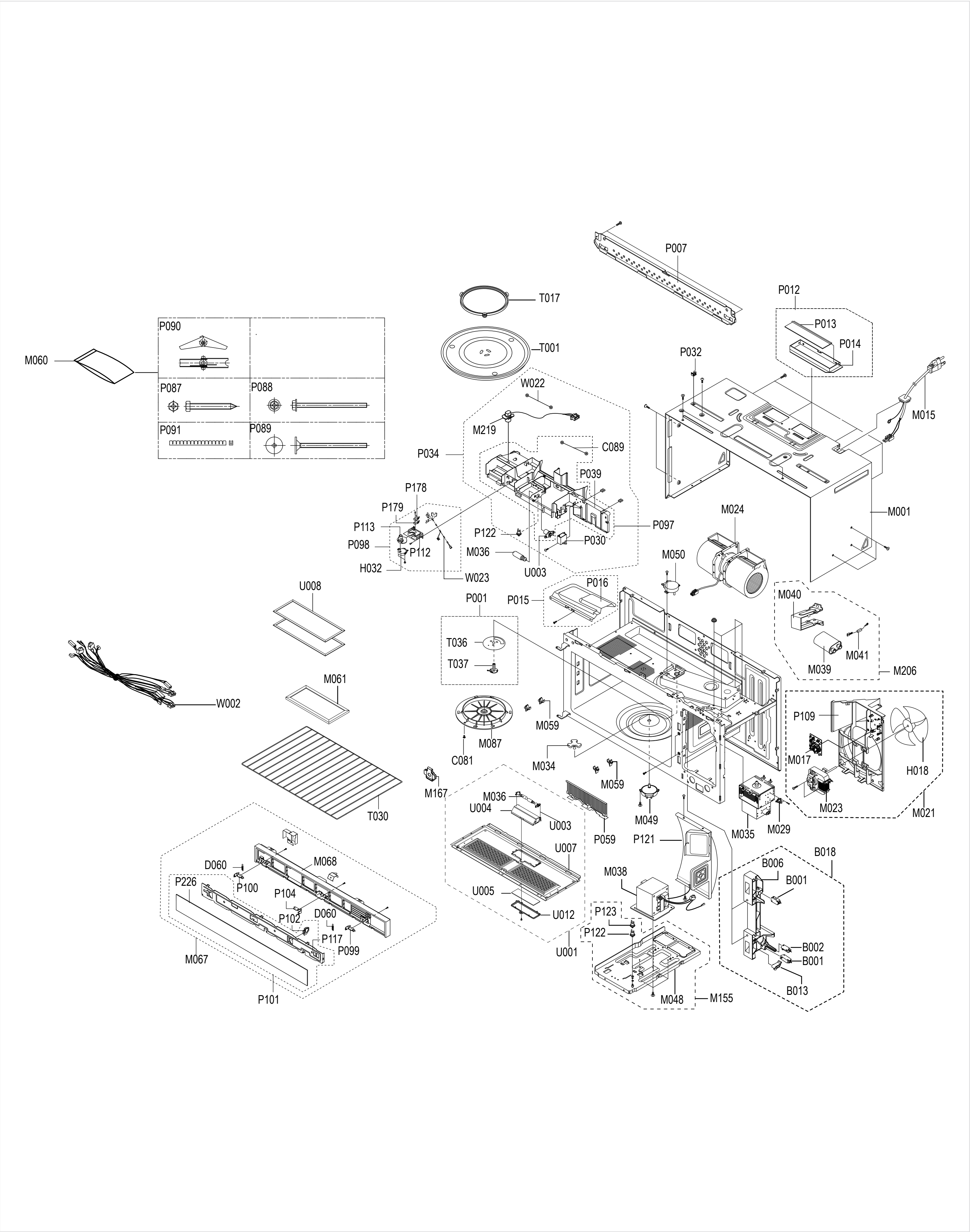
Uneven cooking.



Noise from the turntable motor when it starts to operate.



5-1 Exploded Views



5. Exploded Views and Parts List

5-2 Main Parts List

(S.N.A : SERVICE NOT AVAILABLE)

Level	No.	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
1-1	M036	4713-001013	LAMP-INCANDESCENT	130V,-,40W,ORG,E17/20,	1	SA	-
1-1	M038	DE26-00126A	TRANS H.V	SHV-U1870C,120V,60HZ,2480/2240	1	SA	-
1-1	M024	DE31-00029B	MOTOR VENTILATION	SMV-460UA-1,SMH7175WE/	1	SA	-
1-1	M049	DE31-10172A	MOTOR-SYNCHRONOUS	M2HJ24Z709,ST-16F,21V,	1	SA	TURNTABLE
1-1	M050	DE31-10173A	MOTOR-SYNCHRONOUS	M2HJ29A709,ST-16F,21V,	1	SA	STIRRER
1-1	M029	DE47-20007A	THERMOSTAT	PW-2N(160/60)187Z,250V7.5A,16	1	SA	MGT
1-1	M059	DE61-00375A	HOLDER-RACK	OTR-1.5CUFT,PP,-,-,-,-,-	1	SA	-
1-1	P121	DE61-00411B	BRACKET-DUCT REAR	NEW WAVE / MT 2.0,SECC	1	SA	-
1-1	U008	DE63-00196A	FILTER-AIR	SMH7175,AL-MESH,T2.0,W150,L34	1	SA	-
1-1	M167	DE63-00359A	EARTH-CLIP	SMH7175,STS301,T0.15,W13.5,L3	1	SA	-
1-1	M061	DE63-00367D	FILTER-CHARCOAL	MODULAR-2,AL,CARBON,T9,W	1	SA	-
1-1	P059	DE63-00419A	COVER-FRONT	MAYTAG2.0,SECC,T0.6,-,-,-,-,MA	1	SA	-
1-1	M001	DE64-00754J	PANEL-OUTER	MAYTAG2.0,SECC,T0.4,-,-,-,-,BL	1	SA	-
1-1	C081	DE66-20095B	BUTTON-LOCK	-,-,OTR5,-,-,TB53)	1	SA	-
1-1	M034	DE67-00179A	COUPLER	SMH7175,SPS,BRN,-,-,-,-	1	SA	-
1-1	P007	DE70-00378A	PLATE-MOUNTING	SMH7175,SECC,-,-,T0.8,W130	1	SA	-
1-1	M087	DE71-60121A	COVER-STIRRER	-,-,PP,T2.0,W7,L198,-,85G,-	1	SA	-
1-1	T001	DE74-20002C	TRAY-COOKING	GLASS,T6,1500G	1	SA	-
1-1	T030	DE75-00036A	RACK-WIRE	SMH7175,SNC2,D5,-,-,-,-,-	1	SA	-
1-1	P012	DE92-90242D	ASSY-HOOD DAMPER	JVM-1870,JVM250BL OTR4,	1	SA	-
1-2	P013	DE71-60051B	COVER-DAMPER	JVM-1870,-,0.22,68,248.4,-,	1	SA	-
1-2	P014	DE72-40022A	DAMPER-MAIN	-,-,SECC,-,W28,L650,OTR4,-,T0.	1	SA	-
1-1	M060	DE92-90505E	ASSY-HARD WARE	SMH7175,-,-,-,-	1	SA	-
1-2	P087	DE60-10111A	SCREW-LAG	-,-,-,-,MSWR,W1/4X50,-,-,-,-	1	SA	-
1-2	P088	DE60-20022A	BOLT-TOGGLE	MSWR,W3/16X75,-,-,-,-,-,-,-	1	SA	-
1-2	P089	DE60-20066A	BOLT-FLAT	UNF1/4,L110,MSWR10,-,-,OTR6,-,	1	SA	-
1-2	P090	DE60-30022A	NUT-TOGGLE	SBC1,ZPC2,WHT,-,-,-,-,-,-	1	SA	-
1-2	P091	DE63-10011A	GROMMET	-,-,MS,-,-,-,DACB-16,-,-,-	1	SNA	-
1-1	P032	DE92-90508A	ASSY-HOLDER NUT	OTR6,-,-,-,-,-,-	1	SA	-
1-1	M067	DE94-01618A	ASSY-GRILLE	120V/60HZ,SMH7187STG,STS,AUT	1	SA	-
1-2	D060	6107-001175	SPRING-ES	HSWR,BLUIING,PI0.95,D8.5,L48.4	1	SNA	-
1-2	P099	DE61-00128A	HINGE-GRILLE(R)	JVM-1860,SECC,T0.8,-,-,-,-	1	SA	-
1-2	P100	DE61-00129A	HINGE-GRILLE(L)	JVM-1860,SECC,T0.8,-,-,-,-	1	SA	-
1-2	P104	DE61-00177A	HINGE-GRILLE(M)	JVM-3660,SECC,T1.6,-,-,-,-	1	SA	-
1-2	M068	DE64-01455A	GRILLE	MT2.0,PC,-,-,-,-,BLK,JENNAIR	1	SA	-
1-2	P101	DE94-01622A	ASSY-COVER GRILLE	120V/60HZ,SMH7187STG,S	1	SA	-
1-3	P102	DE61-00150A	BRACKET-BARRIER GR	JVM-1860,SECC,T0.5,-,-,-	1	SA	-
1-3	P117	DE61-00811A	BRACKET-COVER GRILLE	MT 2.0,SECC,T1.2,-,-,-	1	SA	-
1-3	P226	DE64-01773A	INLAY-GRILLE	NEW WAVE 2,STS430,T0.4,-,-,-	1	SA	-
1-1	M015	DE96-00218A	ASSY-POWER CORD	OTR9,120V60HZ,GE,SJT3/14	1	SA	-
1-1	M206	DE96-00269A	ASSY-HVC	SMH7175,0.91UF HVC	1	SA	-
1-2	M039	2501-001011	C-OIL	910nF,2100V,BK,54x35x75mm,20mm	1	SA	-
1-2	M040	DE61-00115A	BRACKET-HVC	SMH7175,SECC,T0.6,-,-,-,-	1	SA	-

5. Exploded Views and Parts List

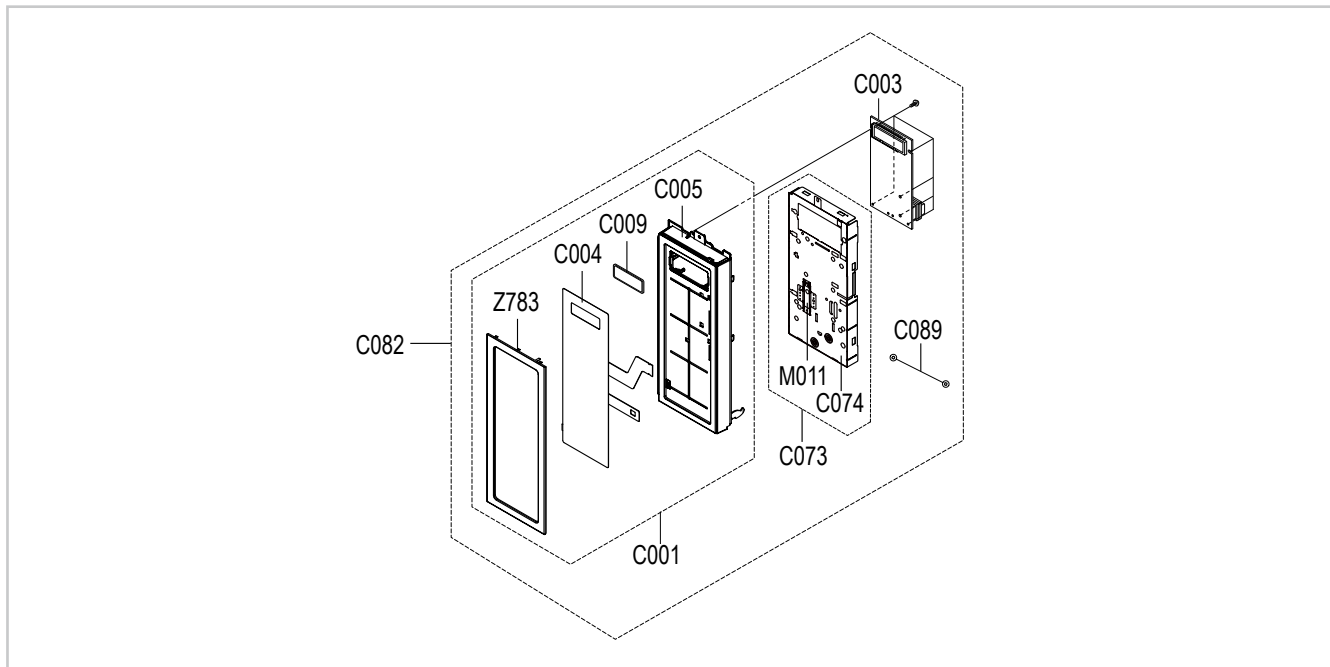
5-2 Main Parts List

(S.N.A : SERVICE NOT AVAILABLE)

Level	No.	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
1-2	M041	DE91-70063D	ASSY-HVD	HV03-12,MWO-GE,RED	1	SA	-
1-3	M041	0402-001554	HVDIODE-RECTIFIER	HV03-12T01,12000V,0.4A	1	SA	-
1-1	B018	DE96-00414A	ASSY BODY LATCH	RVM-1625BJ,-	1	SA	-
1-2	B002	3405-001033	SWITCH-MICRO	125/250VAC 16A,200GF,SPSTNC	1	SA	-
1-2	B001	3405-001034	SWITCH-MICRO	125/250VAC,16A,200GF,SPST-N	1	SA	-
1-2	B006	DE66-00168A	LATCH-BODY	MODULAR-2,PP,-,-,-,-,-	1	SA	-
1-2	B013	DE66-90106B	LEVER-SWITCH LOWER	PP,T1.4,-,-,2.0g,OTR	1	SA	-
1-1	W002	DE96-00490A	ASSY-WIRE HARNESS A	SMH7178STE/XAA,120V/	1	SA	-
1-1	M021	DE97-00365C	ASSY-COVER MOTOR	SMH7175/SMH7178,ASSY-NO	1	SA	-
1-2	M023	DE31-10177E	MOTOR FAN	SMF-1850UA1,SMH7175WC,-,60HZ,-	1	SA	-
1-2	H018	DE31-90051A	BLADE-FAN	P,P,T,D130,-,-,-,-,-	1	SA	-
1-2	P109	DE63-00141A	COVER-MOTOR	SMH7175,PP(FB53),T2.5,-,-,-,-,-	1	SA	-
1-2	M017	DE96-00400B	ASSY NOISE FILTER	SN-UF12B,250V20A,OTR10	1	SA	-
1-1	P034	DE97-00366D	ASSY-DUCT UPPER	SMH7178,HUMIDITY SENSOR,	1	SA	-
1-2	W022	DE39-30099A	LEAD WIRE-F	L140,JVM-1340BW,-,-,-,-,-	1	SNA	-
1-2	P122	DE47-20059A	THERMOSTAT	PW-2N(8XV),125V15A,V,120/0,23	1	SA	-
1-2	P030	DE59-50002A	CAPACITOR-MOTOR	SH-M 10UF,220V10UF,-,DMB	1	SA	-
1-2	P098	DE97-00181A	ASSY-CAM LOUVER	JVM-1860,ASSEMBLY,-,-	1	SA	-
1-3	P178	3405-001050	SWITCH-MICRO	125V,0.1A,60GF,SPNC	1	SA	-
1-3	P179	3405-001051	SWITCH-MICRO	125V,0.1A,60GF,SPNO	1	SA	-
1-3	W023	DE39-00253A	WIRE HARNESS-CAM	JVM-1860,-,-,-,-,-,-,-	1	SA	-
1-3	P112	DE61-00118A	BRACKET-CAM PLATE	JVM-1860,SCP,T2.0,W60.	1	SA	-
1-3	P113	DE72-00145A	CAM-LOUVER	JVM-1860,POM(KEPITAL FE-22),-	1	SA	-
1-3	H032	DE31-10154C	MOTOR DRIVE	M2CK59ZT69-H,-,-,120V60HZ,-,	1	SA	ASSY CAM LOUVER
1-2	P097	DE97-00371B	ASSY-DUCT UPPER(SUB)	JMV8186,HUMIDITY-SE	1	SA	-
1-3	U003	DE47-00006A	HOLDER-LAMP	250V,75W,250X187 2POLE,OTR	1	SA	-
1-3	P039	DE67-00168A	DUCT-UPPER	SMH7175,PP,T2.0,BLK,-,-,-,-	1	SA	-
1-3	M219	DE97-00585A	ASSY-SENSOR HUMIDITY	SMH7175WE/XAA,-,HUM	1	SA	-
1-3	C089	DE39-40673F	WIRE HARNESS-H	SMH7175WE/XAA,-,-,-,-,-,-	1	SA	-
1-1	P001	DE97-00367A	ASSY-STIRRER	SMH7175,H/STIRRER+B/STIRRER	1	SA	-
1-2	T036	DE31-00023A	BLADE-STIRRER	SMH7175,ALP1050,-,-,PI82,T	1	SA	-
1-2	T037	DE61-00505A	HOLDER-STIRRER	SMH7175,SPS,-,-,-,-,-,-	1	SA	-
1-1	T017	DE97-00368A	ASSY-GUIDE ROLLER	SMH7175,SPS,G/ROLLER+R	1	SA	-
1-1	P015	DE97-00411A	ASSY-BKT DUCT UPPER	SMH7175BC,BKT-DUCT U	1	SA	-
1-2	P016	DE61-00410A	BRACKET-DUCT UPPER	SMH7175,SECC,T0.5,W20	1	SA	-
1-1	U001	DE97-00675A	ASSY-BASE BOTTOM	SMH7174BE,BLK,-,-	1	SA	-
1-2	M036	4713-001013	LAMP-INCANDESCENT	130V,-,40W,ORG,E17/20,	1	SA	-
1-2	U003	DE47-00006A	HOLDER-LAMP	250V,75W,250X187 2POLE,OTR	1	SA	-
1-2	U007	DE61-00406F	BASE-BOTTOM	MAYTAG2.0,SECC,T0.4,-,-,BLK,	1	SA	-
1-2	U004	DE61-00407A	BRACKET-BOTTOM LAMP	SMH7175,SECC,T0.4,-,-	1	SA	-
1-2	U012	DE63-00137B	COVER-GLASS COOKTOP	SMH7175,SECC,T0.5,W9	1	SA	-
1-3	U012	DE63-00137A	COVER-GLASS COOKTOP	SMH7175,SECC,T0.5,PR	1	SA	-

5. Exploded Views and Parts List

5-4 Control Parts List



(S.N.A : SERVICE NOT AVAILABLE)

Level	No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
1-1	C082	DE94-01613D	ASSY-CONTROL BOX	-,SMH7187STG/XAA,STS,12	1	SA	-
1-2	C001	DE94-01614C	ASSY-CONTROL PANEL	-,SMH7185STG/XAA,STS,	1	SA	-
1-3	C004	DE34-00205F	SWITCH MEMBRANE	SMH7187STG/XAA,-,-,-,1	1	SNA	-
1-3	C009	DE64-00766D	WINDOW-DISPLAY	SMH7185,SAN(CR-5381),-,W3	1	SA	-
1-3	C005	DE64-01766A	CONTROL-PANEL	NEW WAVE 2,PC,-,-,-,BLAC	1	SNA	-
1-3	Z783	DE64-01771A	INLAY-CONTROL	NEW WAVE 2,STS430,T0.3,-,-	1	SNA	-
1-2	C073	DE94-01619A	ASSY-BRACKET C/PANEL	120V/60HZ,NEW WAVE	1	SA	-
1-3	M011	DE61-00162A	BRACKET-EARTH	JVM-1860,SECC,T0.6,W39,L61	1	SA	-
1-3	C074	DE61-00940A	BRACKET-C/PANEL	NEW WAVE 2,SECC,T0.4,-,-	1	SA	-
1-2	C003	RAS-OTR7HV-04	ASSY PCB PARTS	SMH7178,120V/60HZ	1	SA	-

5. Exploded Views and Parts List

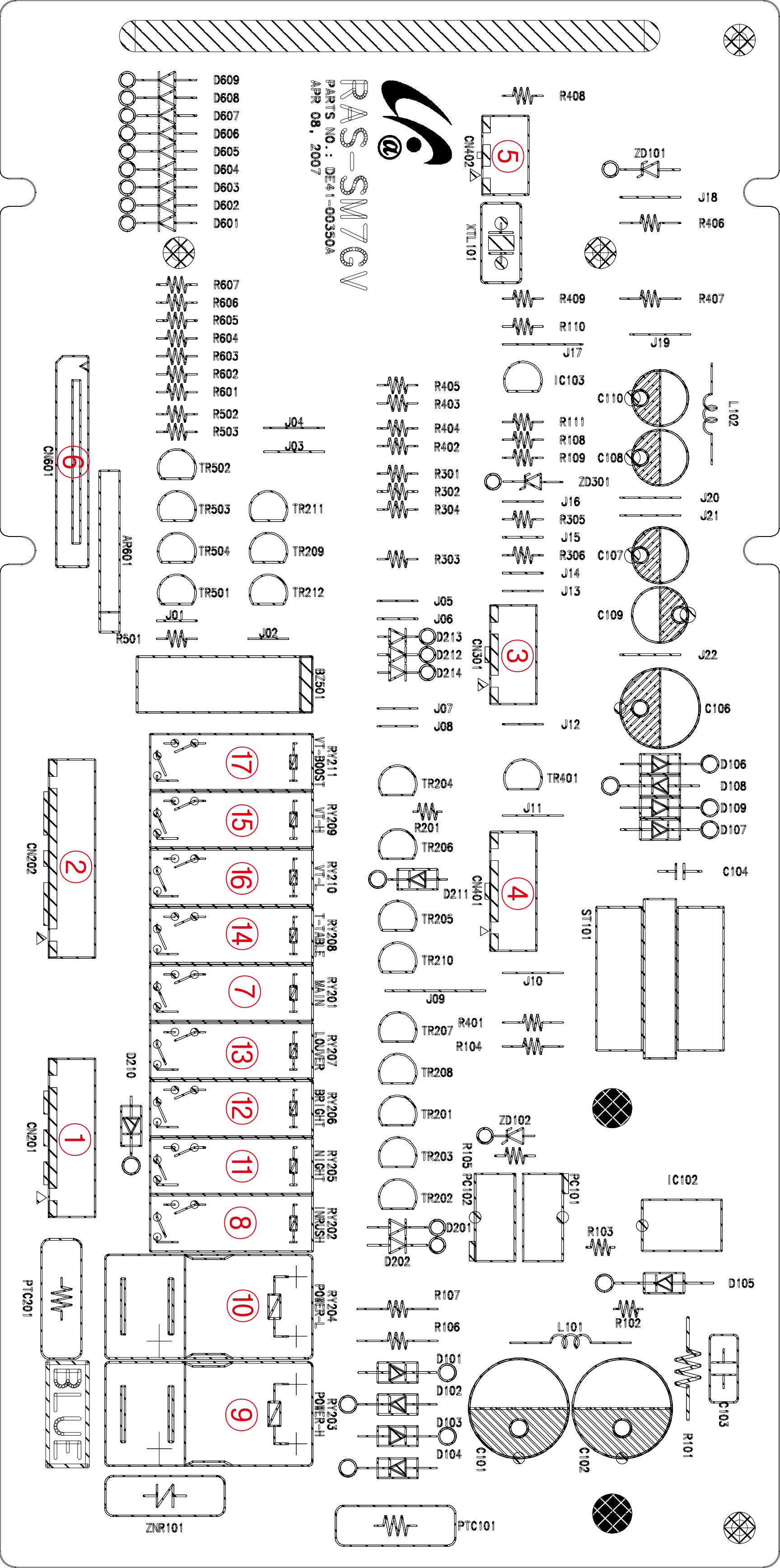
5-5 Standard Parts List

(S.N.A : SERVICE NOT AVAILABLE)

Level	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
1-1	6002-000643	SCREW-TAPPING	TH,+,2S,M4,L10,ZPC(YEL),SW	1	SA	CVT FRONT+B.PLATE
1-1	6002-001173	SCREW-TAPPING	FH,+,2S,M4,L12,ZPC(BLK),MS	2	SA	O/PANEL,GRILLE
1-1	6003-001568	SCREW-TAPTITE	FH,TORX,-,B-TITE,M4,L14,NI	1	SA	BODY LATCH
1-1	6006-001170	SCREW-ASSY TAPP	WS,TH,+,M4,L10,ZPC(YEL)	3	SA	P.CORD,N.FILTER E.& BKT.HVC,H.SENSOR EAR
1-1	DE60-10045A	SCREW-TAP PH	-,FEFZY,-,PH,M3,-,L6,-,-	1	SA	MGT-TCO
1-1	DE60-10051A	SCREW-TAP PH	-,MSWR,-,PH,M4,-,L6,-,-	2	SA	STIRRER MOTOR,TURNTABLE MOTOR
1-1	DE60-10062A	SCREW-TAP TH	-,FEFZB,-,TH,M4,-,L12,-,-	2	SNA	BRACKET D/UPPER,CONTROL BOX
1-1	DE60-10067A	SCREW-TAP TH	-,FEFZB,2-SLOT,TH,M4,-,L8	2	SA	BASE BOTTOM,PANEL OUTER
1-1	DE60-10080A	SCREW-WASHER	-,,-,M5,L12,-,2S,-,-	1	SA	HVT
1-1	DE60-10082I	SCREW-A	-,,-,2S-4X10,FEFZY,-,,-,-	8	SA	FAN MOTOR,EARTH CLIP,DUCT UPPER,BKT DUCT
1-1	DE60-30015A	NUT-FLANGE	M5,P0.8,MSWR10,FEFZY,-,,-,-,-	1	SA	MGT
1-2	DE60-10111A	SCREW-LAG	-,,-,MSWR,W1/4X50,-,,-,-,-	1	SA	-
1-2	DE60-20022A	BOLT-TOGGLE	MSWR,W3/16X75,-,,-,-,-,-,-	1	SA	-
1-2	DE60-20066A	BOLT-FLAT	UNF1/4,L110,MSWR10,-,,-,OTR6,-,-	1	SA	-
1-2	DE60-30022A	NUT-TOGGLE	SBC1,ZPC2,WHT,-,,-,-,-,-,-	1	SA	-
1-1	DE92-90508A	ASSY-HOLDER NUT	OTR6,-,,-,-,-,-	1	SA	-
1-2	6002-000234	SCREW-TAPPING	TH,+,2S,M4,L16,ZPC(YEL),SM	1	SA	HANDLE+DOOR-E
1-3	DE60-10067A	SCREW-TAP TH	-,FEFZB,2-SLOT,TH,M4,-,L8	1	SA	-
1-2	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(YEL),SWR	1	SA	PCB
1-2	6002-000234	SCREW-TAPPING	TH,+,2S,M4,L16,ZPC(YEL),SM	1	SA	-
1-2	DE60-10082I	SCREW-A	-,,-,2S-4X10,FEFZY,-,,-,-,-	1	SA	ASSY DIODE
1-2	6002-001004	SCREW-TAPPING	TH,+,2,M4,L30,ZPC(YEL),SWR	1	SA	-
1-2	DE60-10082I	SCREW-A	-,,-,2S-4X10,FEFZY,-,,-,-,-	1	SA	N/FILTER SCREW
1-2	DE60-10062A	SCREW-TAP TH	-,FEFZB,-,TH,M4,-,L12,-,-	1	SNA	-
1-3	6002-001169	SCREW-TAPPING	PH,+,2S,M3,L25,ZPC(YEL),MS	1	SA	MICRO-S/W
1-3	DE60-10051A	SCREW-TAP PH	-,MSWR,-,PH,M4,-,L6,-,-	1	SA	MOTOR-DRIV
1-3	DE60-30063A	NUT-MOUNTING	-,M6.3,S10C,ZNC,YEL,-,,-,-,-	1	SA	-
1-3	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(YEL),SWR	1	SA	HUMIDITY SENSOR
1-2	DE60-10067A	SCREW-TAP TH	-,FEFZB,2-SLOT,TH,M4,-,L8	1	SA	-
1-2	DE60-10045A	SCREW-TAP PH	-,FEFZY,-,PH,M3,-,L6,-,-	1	SA	BT-TCO

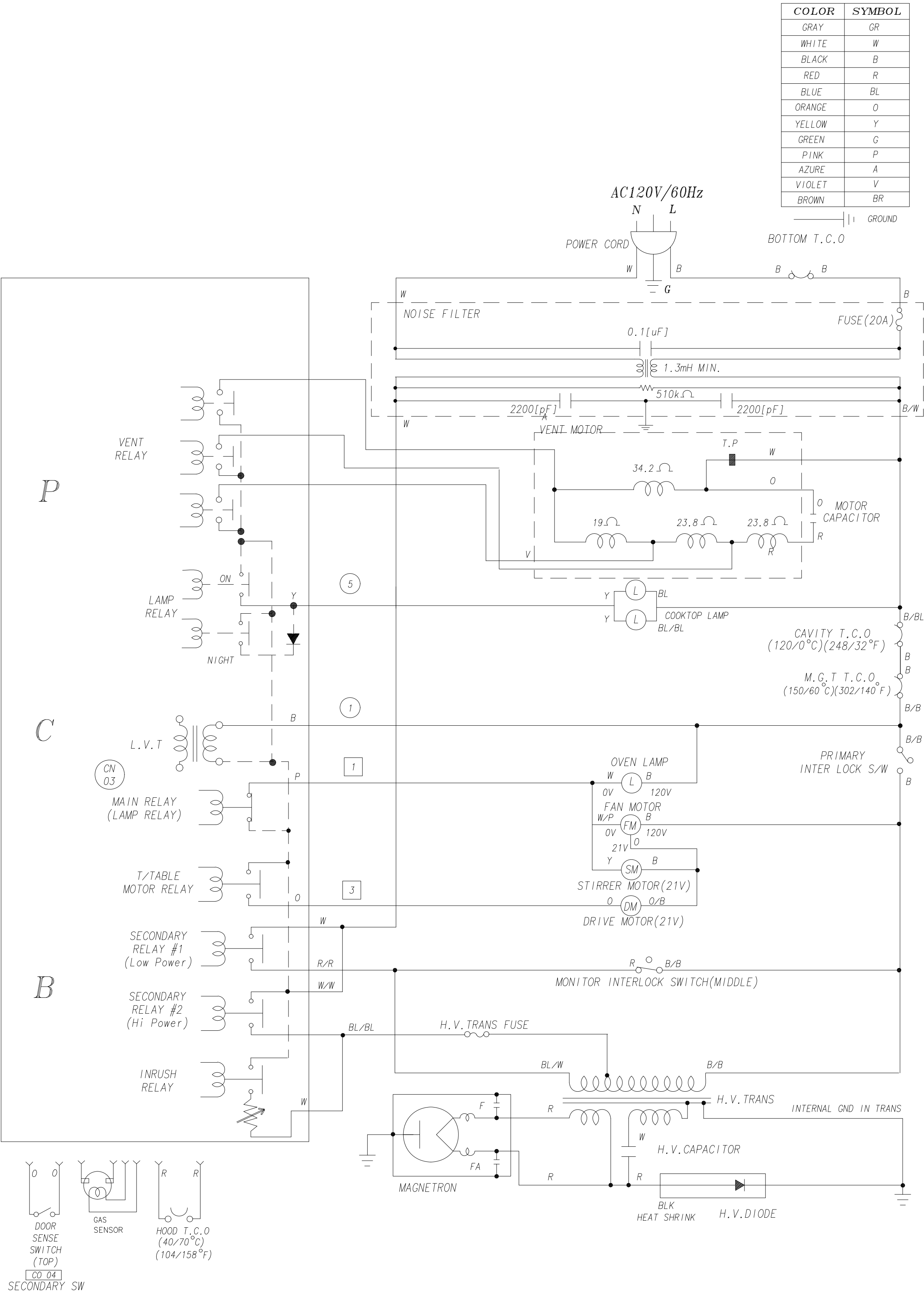
6-1 PCB Diagrams

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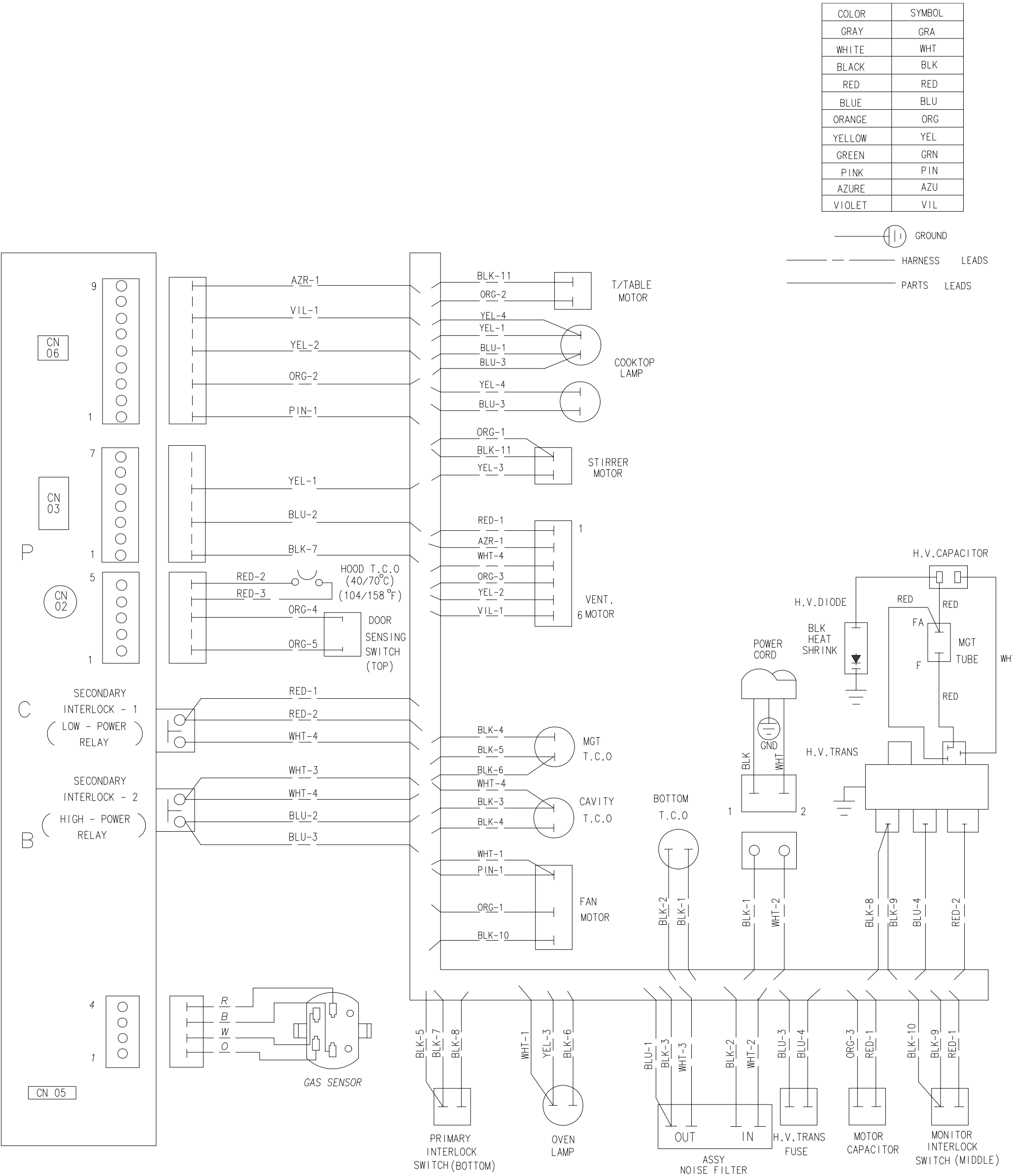
7-1 Wiring Diagrams

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7-1 Wiring Diagrams

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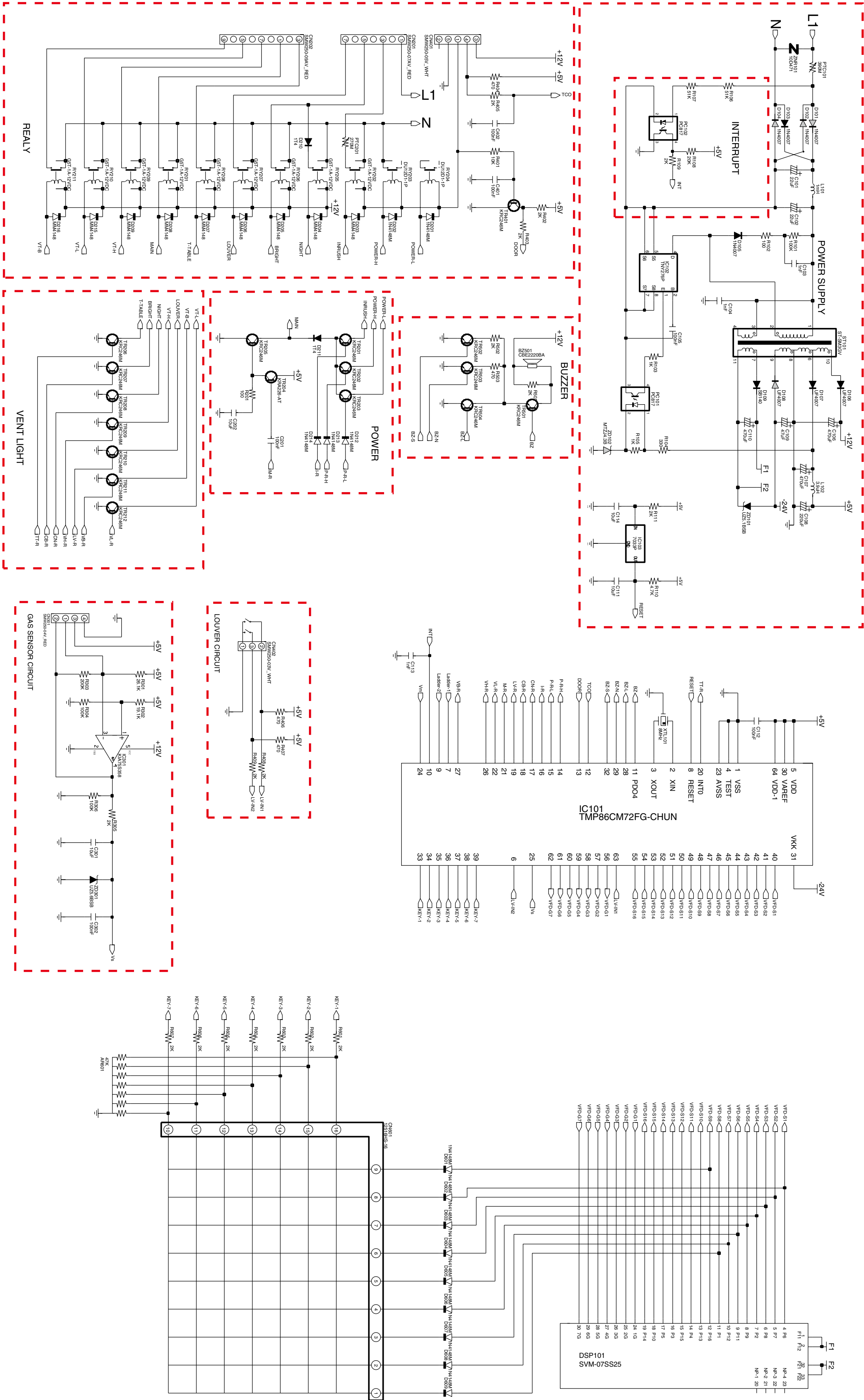


NOTE: FOR SERVICING REPLACEMENT USE 16GA, 105 °C THERMOPLASTIC COVERED WIRE EXCEPT FOR HIGH VOLTAGE LEADS OR AS NOTED ON SPECIAL LEADS.

Printed in Malaysia

8-1 Schematic Diagrams

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GSPN (Global Service Partner Network)

Contry	Web Site
North America	service.samsungportal.com
Latin America	latin.samsungportal.com
CIS	cis.samsungportal.com
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China	china.samsungportal.com
Asia	asia.samsungportal.com
Mideast & Africa	mea.samsungportal.com